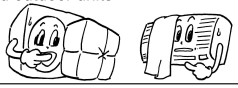
【Methods of Maintenance】

The air conditioner must be turned off power before the maintenance is to be carried out.

Before the season of operation

1. Check if there are any blocking materials in the intake and outlet vents of the indoor and outdoor units.



2. Check if the installation stand is corroded or rusty.
3. Check if the machine is properly grounded.

4. Check if the air filter is clean.
5. Connect to the power source.
6. Put batteries in the remote controller.

During the season of operation

The cleaning of the air filter screen (Standard intervals should be once every two weeks).

1. Remove the air filter screen from the unit.
   - Gently press the two lower ends of the grid and open it.
   - Gently pull up the air filter screen and take it out in the direction of your body.

2. Clean the air filter screen.

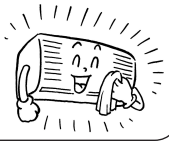
   if the screen is very dirty, please use lukewarm water (about 86°F or 30°C) to clean it. Air it dry after the cleaning.

   Note:
   - Do not use boiling water to clean the screen.
   - Do not bake the screen dry over a fire.
   - Do not exert too much force in pulling and stretching the screen.
3. Install the air filter screen.

To operate the air conditioner without the air filter screen on will cause the interior of the machine dirty which might lead to poor performances or damages to the units.

Clean the air conditioner

- Use a soft and dry cloth to rub the air conditioner, or use a vacuum cleaner to clean it.
- If the air conditioner is very dirty, use a piece of cloth and soak it with neutral home-use detergent to do the cleaning.



After the season of operation

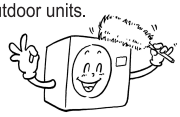
1. Set the temperature at 86°F or 30°C and operate in the fan status for about half a day.

To make the interior of the units dry

2. Stop the operation of the machine and turn off the power switch.

The air conditioner will consume about 5W of electric power after the machine is turned off. For the purpose of energy saving and safety, it is advisable to pull the plug out during the non-operational seasons.

3. Clean and install the air filter screen.
4. Clean the indoor and outdoor units.



5. Take the batteries out from the remote controller.

Note:
If the air filter screen is blocked by dust or dirt, the performance of cooling and heating will be affected, with the operation noise and power consumption increased. Therefore, the air filter screen should be cleaned regularly.

【Treatment at service call】

Please check the following before requesting after-sale service from your dealer .

The air conditioner does not operate at all .

Is the power in an outlet ?	Is the time set to "ON" position ?	Is there a power failure or a break fuse ?

Poor cooling or heating performance .

Is the room temperature setting suitable ?	Are the air filters clean (Not clogged)?	Are the window (s) and door (s) opened ?

Poor cooling performance .

Is direct sunlight entering the room ?	Is there a heat source in the room ?	Are there too many people in the room ?

Room temperature can't be controlled . (Too cold or too hot)

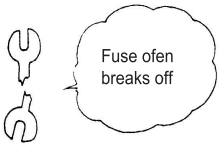
Is the room temperature setting too low or too high?

If the air conditioner does not operate properly ever after conducting the above checks , when the doubt still remains even after consulting page 11 or in case that such phenomena as those shown below, turn off the power and contact your distributor .

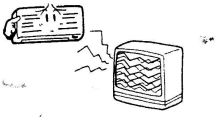
Cases requiring immediate contact with the distributor

Pull out the power plug immediately and inform to your distributor in the following situations:

Fuse or breaker often breaks off

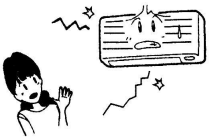


Malfunction is observed TV , radio or other devices .



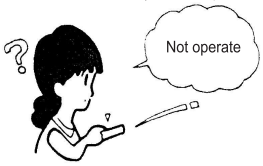
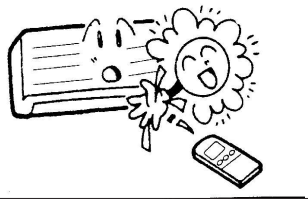
Switch dose not actuate surely

Abnormal noise is heard during operation



When faulty operation movement is observed when the RUN button is pressed , even after restarting the operation after 3 minutes , faulty movement does not disappear .

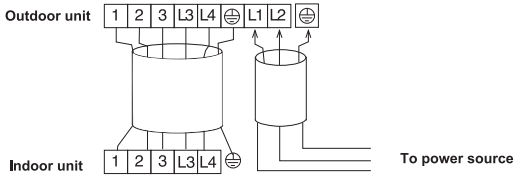
【We hope you will know the following when using the unit】

The unit can not be restarted just after shut down . (RUN lamp is illuminating) 	Restart is stopped for 3 minutes after shut down to protect the unit . Three-minute protection timer incorporated in the microcomputer actuates automatically . Except that power is connected , this function does not actuate .
Air is not blown out at starting of heating operation.	Air blow is stopped to prevent blowing out of cold air until the indoor heat exchanger is warmed .(2 to 5 min) (HOT KEEP)
Air is not blown out for 6 to 12 min , at heating operation .	When outdoor temperature is low and humidity is high , the unit sometimes performs defrosting automatically . Please wait . During defrosting , water or steam are raising from the outdoor unit .
Air is not blown out at DRY operation .	Indoor fan is sometimes stopped to prevent vapor of dehumidified moisture and save energy .
Mist is blown out at COOL operation .	This phenomenon sometimes occurs when the temperature and humidity of the room are very high , but it will disappear with the lowering of the temperature and humidity .
Odor is sent out .	Air blown out during operation may smell . This is the smell of tobacco or cosmetics sticked to the unit .
Noise is heard cracking sound . 	This is caused by the refrigerant that is circulating inside the unit.
Noise is heard cracking sound .After a power stoppage or after disconnecting the power supply plug.	This is caused by heat expansion or contraction of plastics.
Operation can not be restarted even if the power is recovered.	The memory circuit of the microcomputer is cleared. Operate the remote controller again to restart the operation .
Remote control signals are not received .	Remote control signals may not be received when signal receiver on the air conditioner body is exposed to direct sunlight or strong lighting . In that case , interrupt the sunlight or darken the lighting. 
Moisture may form on the air outlet grilles .	If the unit is operated for a long period of time with the high humidity , moisture may form on the air outlet grilles and drip down .

Points of attention

- HACR type breaker should be utilized along with proper installation;
- Make sure of the applicable voltage and cables or wires for the specific model to be used, before doing the connections;
- Read the prompts at the terminal board for wiring. Make sure the wiring is done correctly.
- Pay attention to the poles of the signal terminal and connect the terminals to match the identification numbers.
- When the wiring connections are wrong, the compressor will not work.
- The connecting wires are not supplied.
- The provision for connection of one of the wiring systems that in accordance with the National Electric Code shall be had.ANSI/NFPA 70-1990 would be acceptable for it.
- The connecting wires specification is 14 AWG,VW-1(orTHHW),copper core and 105^{0}C(or 221^{0}F) .Their set screw diameter is 4 mm.The power sourc is 240V,60Hz and 1phase.Minimum circuit ampacity of the wiring systems is 20A.

Connection of wires for outdoor unit and indoor unit



Note:

- The environment conditions must be taken into consideration when the connections of power cable are made (such as the ambient temperature, direct exposure to heat/direct exposure to sunlight);
- The specifications for the power cable refer to the minimum values of the metal core wires. Taking into consideration the voltage losses, the core wire of power cable must be one size larger than the specifications;
- The grounding wire must be connected to the indoor units and outdoor units;
- The laying of power cables must be done by qualified electricians and comply with the regulations of the local power supply authorities and with the standards of the electric appliances;